

What is claimed is:

1. A receiving device used in high-definition television, which includes, a receiver for receiving a radio signal containing a pilot signal; an oscillator for outputting a signal having a frequency that corresponds to a currently selected channel; a tuner for outputting an intermediate frequency signal obtained by tuning the radio signal received at the receiver to the signal output from the oscillator; a filter for filtering the intermediate frequency signal within a frequency band width which the pilot signal can pass through output from the tuner; and a demodulator for extracting the pilot signal from the signal filtered at the filter and for demodulating the filtered signal by using the extracted pilot signal; comprising:

a frequency deviation measuring section for measuring a deviation of a frequency of a carrier wave for each channel;

a memory for storing deviation information based on a measurement result given by the frequency deviation measuring section and error information of a frequency error of the signal output from the oscillator;

a control unit for controlling the frequency of the signal output from the oscillator based on the deviation information and the error information stored in the memory; and

a deviation information updating section for updating the deviation information stored in the memory by performing the frequency deviation measurement for the currently selected channel if the pilot signal could not be extracted by the demodulator,

wherein, the frequency deviation measuring section detects the frequency of the signal output from the oscillator when the pilot signal could be extracted by the demodulator as changing the frequency of the signal output from the oscillator.

2. A receiving device used in high-definition television, which includes, a receiver for receiving a radio signal containing a pilot signal; an oscillator for outputting a signal having a frequency that corresponds to a currently selected channel; a tuner for outputting an intermediate frequency signal obtained by tuning the radio signal received at the receiver to the signal output from the oscillator; a filter for filtering the intermediate frequency signal within a frequency band width which the pilot signal can pass through output from the tuner using; and a demodulator for extracting the pilot signal from the signal filtered at the filter and for demodulating the filtered signal by using the extracted pilot signal; comprising:

a memory for storing error information of a frequency error of the signal output from the oscillator; and

a control unit for controlling the frequency of the signal output from the oscillator based on the error information stored in the memory.

3. A receiving device used in high-definition television, which includes, a receiver for receiving a radio signal containing a pilot signal; an oscillator for outputting a signal having a frequency that corresponds to a currently selected channel; a tuner for

outputting an intermediate frequency signal obtained by tuning the radio signal received at the receiver to the signal output from the oscillator; a filter for filtering the intermediate frequency signal within a frequency band width which the pilot signal can pass through output from the tuner; and a demodulator for extracting the pilot signal from the signal filtered at the filter and for demodulating the filtered signal by using the extracted pilot signal; comprising:

a frequency deviation measuring section for measuring a deviation of a frequency of a carrier wave for each channel;

a memory for storing deviation information based on a measurement result given by the frequency deviation measuring section; and

a control unit for controlling the frequency of the signal output from the oscillator based on the deviation information stored in the memory.

4. The receiving device used in high-definition television according to claim 3, further comprising a deviation information updating section for updating the deviation information stored in the memory by performing the frequency deviation measurement for the currently selected channel if the pilot signal could not be extracted by the demodulator.

5. The receiving device used in high-definition television according to claim 4, wherein the frequency deviation measuring section detects a frequency of the signal output from the oscillator, when the pilot signal could be extracted by the demodulator as

changing the frequency of the signal output from the oscillator.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18